High School to College and Career Pathway: Post-Secondary

Area of Study: Technology & Engineering Educ. Pathway: Pre-Engineering

Region: Wasatch Front	**District:**	**School:**	**College/Institution: Salt Lake Community College** Articulation Agreement in place? Yes **Name of Degree or Certificate: Chemical Engineering, Associate of Pre-Engineering Transfer Degree**
Contact Person: Don Johnson		**Ph.#: 801 957-5807**	
E-mail: don.johnson@slcc.edu		**Date: 04-23-07**	

High School				College		
Course Number	**High School Suggested Academic Courses**	**H.S. Credit**	**College Credits**	**Course Number**	**College General Education Requirements**	**College Credits**
	ENGL 1010*	1	3 ⇨	ENGL 1010	Introduction to Writing	3
				ENGL 2010	Intermediate Writing *or* ENGL 2100 Technical Writing (3)	3
	Calculus Elective Concurrent Enrollment*	1	4 ⇨	MATH 1210	Calculus I	4
	HIST 1700 American Civilization*	1	3 ⇨	HIST 1700	**Amer Civ *or* ECON 1740 Econ Hist or POLS 1100 US Gov**	3
	6 credits from 2 distribution areas: Fine Arts 3, Humanities 3, Social Science 3*	2	6 ⇨		6 credits from 2 distribution areas: Fine Arts 3, Humanities 3, Social Science 3	6

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High School				College		
Course CIP #	**CTE Pathway Courses (4 credits for completion)**	**H.S. Credit**	**College Credits**	**Course #**	**College Major Course Requirements**	**College Credits**
Course #	**Foundation Courses: (2.5 required)**	**Credit**				
21.0122	Principles of Engineering	1.00				
21.0120	Engineering Design, Introduction	1.00				
21.0121	Digital Electronics	1.00				
	Choose one of the following courses:					
21.0123	Computer Integrated Manufacturing	1.00				
21.0125	Civil Engineering & Architecture	1.00				
	Aerospace Engineering	1.00				
21.0124	Engineering Design & Development	1.00				
	Elective Courses: (choose 1.5 credits)					
48.0101	Drafting/CAD	1.00				
47.0105	Electronics	1.00				
48.0503	Machine Tool	1.00				
32.0199	Student Internship (Critical Workplce Skills)	.50				
				CEEN 2010	Statics	3
				CEEN 2140	Strength of Materials	2
				CEEN 2145	Strength of Materials Lab	1
				CEEN 2450	Numerical Techniques	2
				CHE 2800	Fundamentals of Process Engineering	3
				CHE 2300	Engineering Thermodynamics	2
				CHEM 2310	**Organic Chemistry I**	4
				CHEM 2315	Organic Chemistry Lab I	1
				CS 1050	Engineering Computing *or* ENGR 1000 & ENGR 1020	3
				MATH 1220	Calculus II	4
				MATH 2210	Multivariate Calculus	3
				MATH 2250	Differential Equations/Linear Algebra	3
				PHYS 2210	Physics for Science & Engineering I	4
				PHYS 2215	Physics for Science & Engineering Lab I	1
				PHYS 2220	Physics for Science & Engineering II	4
				PHYS 2225	Physics for Science & Engineering Lab II	1

					ELECTIVES (Optional) May be required at some transfer institutions. See advisor. -CHE 2000 CO-OP Education (1-2) -CHEM 2320 Organic Chemistry II (4) -Chem. 2325 Organic Chemistry Lab II (1)	
	Additional Articulated Classes Below	**Credit**				
	CHEM 1210 Chemistry W/Lab Conc Enrol*	1	4	CHEM 1210	General Chemistry I	4
	CHEM 1215 Chemistry W/Lab Conc Enrol*		1	CHEM 1215	General Chemistry Lab I	1
	CHEM 1220 Chemistry W/Lab Conc Enrol*	1	4	CHEM 1220	**General Chemistry II**	4
	CHEM 1225 Chemistry W/Lab Conc Enrol*		1	CHEM 1225	General Chemistry II Lab	1
TOTAL Potential Credits Earned in High School			**26**	**TOTAL Credits Required for Degree or Certificate**		**70**

Note: *This is a regional agreement. Some classes and some concurrent enrollment agreements may not be available in your particular high school. See your individual school for specific program offering.* ***Note: *= concurrent ^= distant***

Note: *Requirements may change year-to-year. It is the student's responsibility to verify information by consulting with an SLCC department advisor.*

Note*: It is essential that students, while in high school, take as much mathematics, chemistry, physics and English as possible.*

Note*: This is designed to be a transfer degree to a university. Additional upper-division General Education courses will be required at the receiving institution. Regarding transferring from SLCC to a university program, students should consult with academic advisors at both institutions.*